

Message Text

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TAGS: TGEN, ENRG, US, UR
SUBJECT: US-USSR ATOMIC ENERGY AGREEMENT: VISIT REPORT: JOINT
COORDINATING COMMITTEE ON FUNDAMENTAL PROPERTIES OF MATTER
(07.01) REF TO S&T PHYSICS (01.08)

SUMMARY. SUBJECT USDEL HAD PRODUCTIVE DISCUSSIONS WITH SOVIETS,
AGREEING TO 1977 EXCHANGE ACTIVITIES AND DISCUSSING
THREE POSSIBLE NEW COOPERATIVE AREAS. PERSISTENT PROBLEMS
OF THREE TO ONE IMBALANCE IN FAVOR OF THE SOVIETS ON VISITS AND
SOMEWHAT DIFFICULT ACCESS FOR AMERICANS TO FACILITIES
OUTSIDE SCAE WERE ALSO DISCUSSED AND A NUMBER OF SOLUTIONS
PROPOSED. END SUMMARY.

1. USDEL HEADED BY ERDA DEPUTY ASSISTANT ADMINISTRATOR KANE
MET WITH SOVIET FPM WORKING GROUP HEADED BY PROFESSOR CHUVILO AND
AGREED TO DETAILED 1977 EXCHANGE PROGRAM CONSISTING OF 34
ACTIVITIES. KANE ALSO SUGGESTED DISCUSSING DURING THE COMING YEAR
POSSIBLE COOPERATION IN THREE NEW AREAS: NUCLEAR SCIENCES,
SYNCHROTON STUDIES OF SURFACES, AND USE OF ACCELERATORS IN
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PREPARING SOLID-STATE MATERIALS. SOVIET RECEPTION TO THESE
PROPOSALS WAS GOOD. KANE ALSO DISCUSSED WITH CHUVILO
PERSISTENT THREE-TO-ONE IMBALANCE IN FAVOR OF SOVIETS ON
MAN-DAYS OF VISITS UNDER THE PROGRAM. THE U.S. SIDE OFFERED
SUGGESTION TO RECTIFY IMBALANCE BY EACH SIDE SETTING
UP AN ACCOUNT IN LOCAL CURRENCY TO MATCH EXPENSES INCURRED
BY THEIR DELS IN RECEIVING COUNTRIES. THUS UNDER THIS IDEA,

ERDA WOULD BUILD UP A RUBLE ACCOUNT WHICH COULD BE USED TO OFFSET EXPENSES INCURRED HERE. THE U.S. DELEGATION ALSO RAISED PROBLEM OF ACCESS BY AMERICANS TO NON-SCAE FACILITIES, MOST NOTABLY TO ACADEMY INSTITUTES IN NOVOSIBIRSK. THE SOVIETS AGREED TO A STRONGER SCAE EFFORT TO IMPROVE ACCESS SITUATION.

2. USDEL MET JULY 12 WITH SCAE DEPUTY CHAIRMAN MOROZOV TO REVIEW JWG ACTIVITIES. MOROZOV EXPRESSED WARM SUPPORT FOR EXCHANGE ACTIVITIES AND STATED THE THREE NEW AREAS OF PROPOSED COOPERATION HAVE HIGH POTENTIAL BENEFIT AND ARE WELL DEFINED. WITH REGARD TO VISIT IMBALANCE, MOROZOV NOTED THIS ARISES DUE TO THE UNIQUE CHARACTER OF THE 400 GEV ACCELERATOR AT BATAVIA, CURRENTLY THE WORLD'S LARGEST. IN THIS REGARD, MOROZOV STATED THAT ONCE CONSTRUCTION IS COMPLETED ON THE SOVIET STEADY-STATE REACTOR AND PULSED REACTOR, AMERICANS WILL BE ATTRACTED TO THESE FACILITIES AND THE IMBALANCE WILL SOMEWHAT EASE. HE ALSO REFERRED TO PLANS FOR A 3TEV (TRILLION ELECTRON-VOLT) ACCELERATOR WHICH IF CONSTRUCTED WILL STRONGLY REVERSE THE IMBALANCE IN FAVOR OF THE U.S. IN REFERENCE TO THE PLANNED UPGRADING OF THE BATAVIA ACCELERATOR, MOROZOV ALSO ALLUDED TO THE POSSIBILITY OF THE U.S. AND THE SOVIET UNION COOPERATING ON ACCELERATOR DESIGN PROJECTS.

3. COMMENT. EMBASSY CONCURS WITH GENERAL ASSESSMENT OF USDEL THAT COOPERATION WITH THE SOVIETS ON FUNDAMENTAL PROPERTIES OF UNCLASSIFIED

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MATTER IS PROCEEDING SATISFACTORILY. THE VISIT IMBALANCE DOES NOT OFFER THE SOVIETS A SIGNIFICANT SCIENTIFIC ADVANTAGE SINCE ALL EXPERIMENTS AT BATAVIA ARE JOINTLY RUN AND RESULTS ARE FREELY AVAILABLE TO THE WORLD SCIENTIFIC COMMUNITY. THE CREATION OF OFFSETTING ACCOUNTS IN LOCAL CURRENCY MAY BE THE BEST WAY TO RETAIN EXCHANGES ON A RECEIVING-SIDE-PAYS BASIS, AND YET ACHIEVE BALANCE IN EXPENDITURES INCURRED BY BOTH SIDES. OF COURSE, MUCH DEPENDS UPON ASSURING APPROPRIATE ACCOUNTING PRINCIPLES ARE STRICTLY ADHERED TO. MOROZOV'S COMMENT THAT THE 3 TEV ACCELERATOR, IF CONSTRUCTED, WOULD SHARPLY REVERSE THE IMBALANCE IS CERTAINLY TRUE. HOWEVER HE QUICKLY POINTED OUT THAT THIS FACILITY - A CRYOGENICALLY-COOLED RING 21 KM IN CIRCUMFERENCE - WOULD COST ABOUT A BILLION DOLLARS. GIVEN THE CURRENT STATE OF SOVIET CRYOGENICS AND OTHER URGENT CALLS FOR SCIENCE FUNDING, IT DOES NOT APPEAR THAT THE 3 TEV FACILITY WILL EVENTUATE IN THE NEAR FUTURE. WE ALSO NOTE THAT WITH INCREASED ACTIVITY IN PHYSICS UNDER THE S&T AGREEMENT (01.08) AND THE PROPOSED EXPANSION OF FPM INTO NUCLEAR SCIENCES, THE POSSIBILITY EXISTS FOR DUPLICATION OF COOPERATIVE EFFORT IN PHYSICS WITH THE SOVIETS. KANE INDICATED THAT HE INTENDS TO DISCUSS DEFINITION OF ROLES AND INTERESTS OF HIS WORKING GROUP WITH DR. DAVID PINES,

LEADER OF THE S&T PHYSICS WORKING GROUP, SHORTLY AFTER HIS
RETURN TO THE U.S. TOON

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